



K-1688C
Patent

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Rhonda L. Sanders

Type or Print Name of Person Certifying

Date: October 22, 2003

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

In the application of: Yeckley)

Serial No. 10/679,924)

Filed: October 6, 2003)

For: SiAION CONTAINING YTTERBIUM)
AND METHOD OF MAKING)

Group Art Unit:

Examiner:

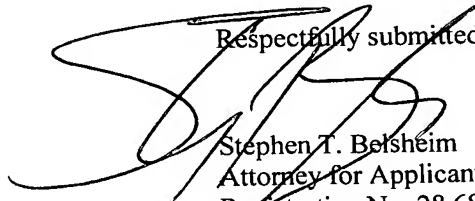
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INFORMATION DISCLOSURE STATEMENT

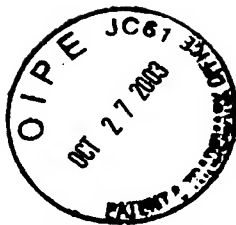
In accordance with the provisions of 37 C.F.R. 1.56 and 37 C.F.R. 1.97-1.99, it is requested that the references listed on the attached Form PTO/SB/08A and PTO/SB/08B be made of record in the above identified application. Copies of the foreign references and articles are submitted herewith. If some of the documents have markings thereon, applicants do not intend to attach any significance to such markings.

This Information Disclosure Statement is being filed before the mailing of the first Office Action and hence, must be considered by the Patent Examiner. However, if any fees are necessary, the Commissioner is hereby authorized to charge fees necessary to enter this paper and obtain consideration of the documents identified on the attached listing to Deposit Account No. 02-2267.

Respectfully submitted,


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INFORMATION DISCLOSURE STATEMENT BY APPLICANT

(Use as many sheets as necessary)

Sheet 1

of 5

Complete if Known

Application Number	10/679,924
Filing Date	October 6, 2003
First Named Inventor	Yeckley
Art Unit	
Examiner Name	
Attorney Docket Number	K-1688C

U. S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages or Relevant Figures Appear
		Number-Kind Code ² (if known)			
		US- 4,127,416	11/1978	Lumby et al.	
		US- 4,563,433	01/1986	Yeckley et al.	
		US- 4,711,644	12/1987	Yeckley et al.	
		US- 4,826,791	05/1989	Mehrotra et al.	
		US- 4,880,755	11/1989	Mehrotra et al.	
		US- 5,032,553	07/1991	Tarry	
		US- 5,200,374	04/1993	Yamada et al.	
		US- 5,370,716	12/1994	Mehrotra et al.	
		US- 5,413,972	05/1995	Hwang et al.	
		US- 5,468,696	11/1995	Ishizawa et al.	
		US- 5,618,766	04/1997	Higuchi et al.	
		US- 5,648,042	07/1997	Miller, Jr.	
		US- 5,908,798	06/1999	Chen et al.	
		US- 6,124,225	09/2000	Tien et al.	
		US- 6,139,791	10/2000	Chen et al.	
		US- 6,471,734	10/2002	Yeckley	
		US- 4,547,470	10/1985	Tanase et al.	
		US- 5,369,065	11/1994	Yoshimura et al.	
		US-			

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document	Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Pages, Columns, Lines, Where Relevant Passages Or Relevant Figures Appear	T ⁶
		Country Code ³ Number ⁴ Kind Code ⁵ (if known)				
		5-43333 Japan	02/1993			/
		5208870 Japan	08/1993			/
		6-32658 Japan	02/1994			/
		2966644 Japan	10/1999			/
		2988966 Japan	12/1999			
		0002829 PCT	01/2000			

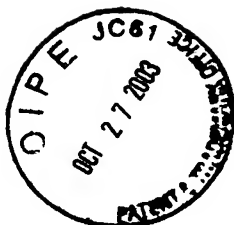
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INFORMATION DISCLOSURE STATEMENT BY APPLICANT (Use as many sheets as necessary)		Complete if Known			
		Applicant Number	10/679,924		
		Filing Date	October 6, 2003		
		First Named Inventor	Yeckley		
		Art Unit			
		Examiner Name			
Sheet	3	of	5	Attorney Docket Number	K-1688C

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		Notification of Transmittal of the International Preliminary Examination Report, International Patent Application No. PCT/US01/47094 mailed Jan 1, 2003.	✓
		International Preliminary Examination Report, International Patent Application No. PCT/US01/47094 mailed Feb. 2, 2003.	
		MENIK et al., "Quantitative Phase Analysis of Synthetic Silicon Nitride By X-Ray Diffraction", pp. 375-379 (date unknown)	
		WATARI et al., "Reaction Process and Densification Process of Mixed a'/b'-Sialon Ceramics", Dept. of Ceramics Science, National Ind. Research Institute of Nagoya, Hirate-cho, Kita-ku, Nagoya, 462 Japan (07/1994) pp. 173-184	
		NORDBERG et al., "Stability and Oxidation Properties of RE-a-Sialon Ceramics (RE=Y, Nd, Sm, Yb) pp. 1461-1470 Manuscript No. 191692 (09/1997) Am. Cer. Society	✓
		SHEN et al., "Reactions Occurring in Post Heat-Treated a/b Sialons: On the Thermal Stability of a-Sialon" Journal of EP Cer. Soc. 16 (11/1995)	✓
		WANG et al., "Formation and Densification of R-a'-Sialons (R=Nd, Sm, Gd, Dy, Er and Yb) Mat. Res. Soc. Symp. Proc. Vol. 287 (1993) Materials Research Soc.	
		Shue, "Microstructure and Mechanical Properties of the In Situ b-Si ₃ N ₄ /a'-SiAlON Composite", J. Am. Ceramic Soc. 77 (1994) pp. 2345-2353	

Examiner Signature	Date Considered
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		Art Unit	
		Examiner Name	
Sheet 4	of 5	Attorney Docket Number K-1688C	

NON PATENT LITERATURE DOCUMENTS			
Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city and/or country where published.	T ²
		MANDAL, "SiAlON Ceramics Sintered with Additions of Yb2O3, Dy2O3, and Sm2O3 or as Mixtures with Y2O3", 8th Int'l Met. & Mat'ls Congress II, Istanbul, Turkey (1995) pp. 845-850	/
		WANG et al., "Preparation of R-a'-b'-Sialons (R=Sm, Gd, Dy, Y and Yb) by Pressureless Sintering", Journal of European Cer. Soc., 13 (1994), pp. 461-465	/
		SHEN et al., "Ytterbium-Stabilized a-sialon Ceramics", J. Phys. D. Appl. Phys. 29 (1996) pp. 893-904	/
		Wittmer et al., "Economic Comparison of Continuous and Batch Sintering of Silicon Nitride", Am. Cer. Soc. Bulletin, Vol.72 No.6, June 1993 pp.129-137	
		WITTMER et al., "Comparison of Continuous Sintering to Batch Sintering of Si3N4", Cer. Bulletin, Vol.70 No. 9 (1991) pp. 1519-1527	
		WITTMER et al., "Continuous Sintering of Si3N4 in a Controlled Atmosphere Belt Furnace", (1991) pp. 546-562	/
		English Abstract of JP-4046062A, SiAlON Sintered Body and Production Thereof and Gas Turbine-Blade Using the Same, June 1990	
		English Abstract of JP-3290373A, SiAlON-based Sintered Material and Production Thereof, April 1990	/
		English Abstract of JP-4042864A, Highly Strong SiAlON Sintered Product, June 1990	/

Examiner Signature	Date Considered
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First Named Inventor	Yeckley
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Attorney Docket Number	K-1688C

Sheet 5 of 5

NON PATENT LITERATURE DOCUMENTS

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		English Abstract of JP-4002664A, High-Strength SiAlON Based Sintered Compact, April 1990	/
		PUDDEPHATT et al., "The Periodic Table of the Elements", Clarendon Press (1986) pp. 90-95	/
		IZHEVSKIY et al., Progress in SiAlON Ceramics, Journal of the European Cer. Soc., 20 (2000) pp. 2275-2295	/
		CRC Handbook of Chemistry and Physics, CRC Press (1998) pp. 4-121	/

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